

Dr. Jed McKinney

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SUMMARY

Research Interests: Charting the role of dust in the growth and evolution of galaxies from the first galaxies through today. Probing dust content and properties to constrain their physical nature, including active galactic nuclei. Using multiwavelength observations to measure baryonic properties and numerical simulations to build a complete evolutionary picture of galaxy evolution.

Grants: \$992k in grant funding secured from NASA, NRAO, and Heising-Simons.

Papers: 9 first-author (131 citations), > 30 co-author.

Observing Experience: 10 PI programs on *JWST*, ALMA, VLA, IRAM 30m, LMT (230 total hours). 16 hours remote observing on Keck, 30 hours observing in-person on IRAM.

Presentations: 22 talks, 11 invited.

Leadership: IRSTIG Leadership Council, COSMOS-Web Working Group Lead, SOC/LOC for conference highlighting postdoctoral leaders in astronomy. PRIMA Mission Concept Science Working Group. chOIR co-founder.

Students: 7 undergraduate with 3 published works, 2 graduate mentees.

EDUCATION

University of Massachusetts, Astronomy PhD Sep 2017 – Aug 2022
Advisor: Alexandra Pope

Tufts University, BS Astrophysics, Math Minor Sep 2013 – May 2017
Advisor: Anna Sajina

POSITIONS HELD

NASA Hubble Fellow at The University of Texas at Austin Aug 2024 – Present
Faculty contact: Caitlin Casey

Postdoctoral Fellow at The University of Texas at Austin Sep 2022 – Aug 2024
Advisor: Caitlin Casey

Visiting Graduate Fellow, IPAC Feb 2020 – Aug 2020
Advisor: Lee Armus

Graduate Student at the University of Massachusetts, Amherst Sep 2017 – Aug 2022
Advisors: Alexandra Pope (PhD), Anne Jaskot

Research Assistant, Tufts University Jan 2015 – May 2017
Advisor: Anna Sajina

GRANTS, FELLOWSHIPS & AWARDS

NASA Hubble Fellowship Program Award, Hubble Fellow 2024

UT Austin Department of Astronomy Excellence in Service 2024

coPI Heising-Simons Conference Support funded for \$70,000 2024

coPI NAASC Conference Support funded for \$9,000 2024

PI JWST Cycle 3 AR #5213 funded for \$326,500 2024

PI JWST Cycle 2 GO #3224 funded for \$554,648 2023

NRAO Student Observing Support for \$35K 2021

Caltech/IPAC Visiting Graduate Fellowship 2020

Massachusetts Space Grant Consortium Fellowship 2019

TELESCOPE
PROPOSALS
& OBSERVING

PI of 2 approved *JWST* programs
PI of 5 approved ALMA programs
PI of 4 more programs across the VLA, LMT, and IRAM
coI on > 10 ALMA programs (> 300 hours)
coI on 7 *JWST* programs (250 hours)
coI on several other LMT, GBT, SOFIA, SMA, VLA programs
30 hours in-person observing with IRAM
16 hours remote observing with Keck

TALKS

(*=*invited*)

Physical Simulations of PAH Emission in Galaxies II, Charlottesville, VA	Nov 2024
CFC-CCA Workshop, Austin, TX	Nov 2024
* University of Maryland Colloquium, College Park, MD	Oct 2024
NASA Hubble Fellowship Symposium, Pasadena, CA	Sept 2024
* Cosmic Odysseys, Crete, Greece	July 2024
The Physics and Impact of Astrophysical Dust, Aspen, CO	Mar 2024
* IA-FORTH, Crete (virtual)	Feb 2024
AAS 243, New Orleans, LA	Jan 2024
10 Years of ALMA, Chile	Dec 2023
* Texas A&M Astronomy Colloquium, College Station, TX	Sept 2023
COSMOS Team Meeting, Rochester, NY	May 2023
CEERS Team Conference, Austin, TX	May 2023
* FLASH Seminar, NOIRLab, Tucson, AZ	Mar 2023
AAS 240, Seattle, WA	Jan 2023
* Tufts Astronomy Seminar (virtual)	Dec 2022
* IRSTIG Webinar Series (virtual)	Oct 2022
IR Science and Technology Workshop, Boulder, CO	Mar 2022
* Princeton Galread Seminar (virtual)	Mar 2022
* UConn Astronomy Seminar, Storrs, CT	Feb 2022
* Caltech Tea Talk Series (virtual)	Jan 2022
* UCLA Lunch Seminar (virtual)	Nov 2021
* CCA Group Meeting Seminar (virtual)	Oct 2021
* Tufts Astronomy Seminar (virtual)	Feb 2021
* IRSTIG Webinar Series (virtual)	Feb 2021
AAS 237 (virtual)	Jan 2021
AAS 235, Hawaii	Jan 2020
IAU Symposium 352, Portugal	June 2019
Escape of Lyman Radiation from Galactic Labyrinths, Crete, Greece	Sept 2019
The Universe by the Light of CANDELS, Amherst, MA	Oct 2018

MENTORING

(*=*published as 1st author*)

Leo Sajkov * - Tufts Undergrad	May 2024 – Present
Virginia Vanicek - UT Undergrad	May 2024 – Present
Camila Silva - UT REU Scholar, UChicago Undergrad	May 2024– Present
Miriam Eleazer - UMass Grad	Mar 2024– Present
Elaine Gammon - UT REU & Goldwater Scholar, UGA Undergrad	Jul 2023– Present
Olivia Cooper * - UT Austin Grad	Jan 2023–Present

	Meredith Stone * - UMass Undergrad (now grad at U. Arizona)	Oct 2018–Present
	Rucellie Jimenez - UMass Undergrad	Jun 2021–Aug 2022
	Owen Henry * - UMass Undergrad	Sep 2019–Dec 2020
	UT NSF REU Research Mentor	2022 – Present
TEACHING	Introductory Astronomy, Extragalactic Astronomy module, UT	Nov 2023
	Summer Pre-College Astronomy & Physics, UMass	2018 – 2019
	Astronomy TA, UMass	2018
	Coding for Undergrad Astronomers Workshop, UMass	2018
OUTREACH & SERVICE	Paradise City Podcast, Austin, TX	Feb 2024
	Astronomy on Tap Host and Speaker, Austin, TX	Aug 2023 – Present
	COSMOS-Web Junior Member Working Group Lead	Sep 2022 – Present
	9th New Horizons Bash Symposium LOC/SOC, Austin, TX	2023
	Telemundo Odessa TV Interview, Austin, TX	Jul 2023
	Co-chair UMass Astronomy DEI Committee	2020 – 2022
	MA High school extragalactic astronomy outreach seminars	2019 – 2020
	UMass Astronomy First Year Students Mentor	2018 – 2019
	UMass Graduate Student Recruitment Committee	2017 – 2022
MEMBERSHIP	chOIR, Leadership Council and Founding Member	Mar 2024–Present
	IR Science and Technology Integration Group Leadership Council	Aug 2022–Present
	PRIMA Galaxy Evolution Science Working Group	Jun 2023–Present
	- Probe concept selected by NASA for Phase A Study	
	New Great Observatories Science Analysis Group	May 2023–Present
	The Cosmic Evolution Survey (COSMOS), and COSMOS-Web	Aug 2022–Present
	The Cosmic Evolution Early Release Science (CEERS) Survey	Aug 2022–Present
	The Great Observatories All-sky LIRG Survey (GOALS)	Feb 2021–Present
	American Astronomical Society	Jan 2016–Present